



January 13, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Fourth Quarter 2025 – SVE System Update

Sunray B 1B
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2212649502

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Fourth Quarter 2025 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Sunray B 1B natural gas production well (Site) on land managed by the Bureau of Land Management (BLM) in Unit F, Section 15, Township 30 North, Range 10 West in San Juan County, New Mexico (Figure 1). After a temporary startup on August 29, 2023, followed by a month long shut down, the SVE system was put into full time operation on September 29, 2023, to remediate subsurface soil impacts resulting from a release of approximately 14 barrels (bbls) of natural gas condensate and 7 bbls of produced water. This report summarizes Site activities performed in October, November, and December of 2025.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 5 horsepower Howden Roots 32 URAI rotary lobe blower capable of producing 112 cubic feet per minute (cfm) flow at 82 inches of water column (IWC) vacuum. The system is powered by a permanent power drop and is intended to run 24 hours per day. Three SVE wells were installed at the Site and are shown on Figure 2. SVE wells SVE01, SVE02, and SVE03 are screened at varying depths up to 25 feet below ground surface (bgs) to address residual soil impacts in the unsaturated zone. Based on diminished PID readings at SVE02 and SVE03, the wells were taken offline in 2024, and extraction efforts are currently focused on SVE01.

FOURTH QUARTER 2025 ACTIVITIES

The initial startup of the Site SVE system was performed on August 29 and 30, 2023. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated February 10, 2023, field data measurements were collected from the system and included the following parameters: total system flow, estimated flow rates from the SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from the SVE well, vacuum measurements from the SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from the SVE well. Field visits were conducted twice per month throughout the fourth quarter of 2025. Field parameters noted above were collected during each visit. Field notes taken during operations and maintenance (O&M) visits are presented in Appendix A. Between September 29 and December 30, 2025, the SVE system operated for 2,206.3 hours for a runtime

efficiency of 99.6 percent (%). Appendix B presents photographs of the runtime meter for calculating the fourth quarter of 2025 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percentage runtime.

Based on the February 2023 COAs, vapor samples are being collected quarterly following the first year of operation from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. A vapor sample was collected on November 15, 2025. Prior to collection, the vapor sample was field screened with a PID for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. A summary of field measurements and analytical results are presented in Tables 2 and 3, respectively. The full laboratory analytical report is attached as Appendix C. Oxygen and carbon dioxide levels over time are presented in Graphs 1 and 2, respectively.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 2,073 pounds (1.04 tons) of TVPH have been removed by the system to date between system startup and November 15, 2025. Vapor samples will continue to be collected quarterly for the remainder of system operation.

DISCUSSION AND RECOMMENDATIONS

Mass removal rates for TVPH were below 1 pound/day throughout 2025. Based on the recent performance and vapor analytical results, Ensolum submitted a proposed confirmation soil sampling plan to the NMOCD on December 11, 2025. The sampling plan was approved the same day, and confirmation sampling is scheduled to be conducted in 2026. A copy of the approval is attached as Appendix D.

Bi-monthly (twice per month) O&M visits and quarterly sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to ensure the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.

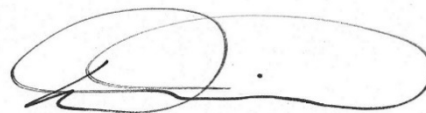
We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely,

Ensolum, LLC



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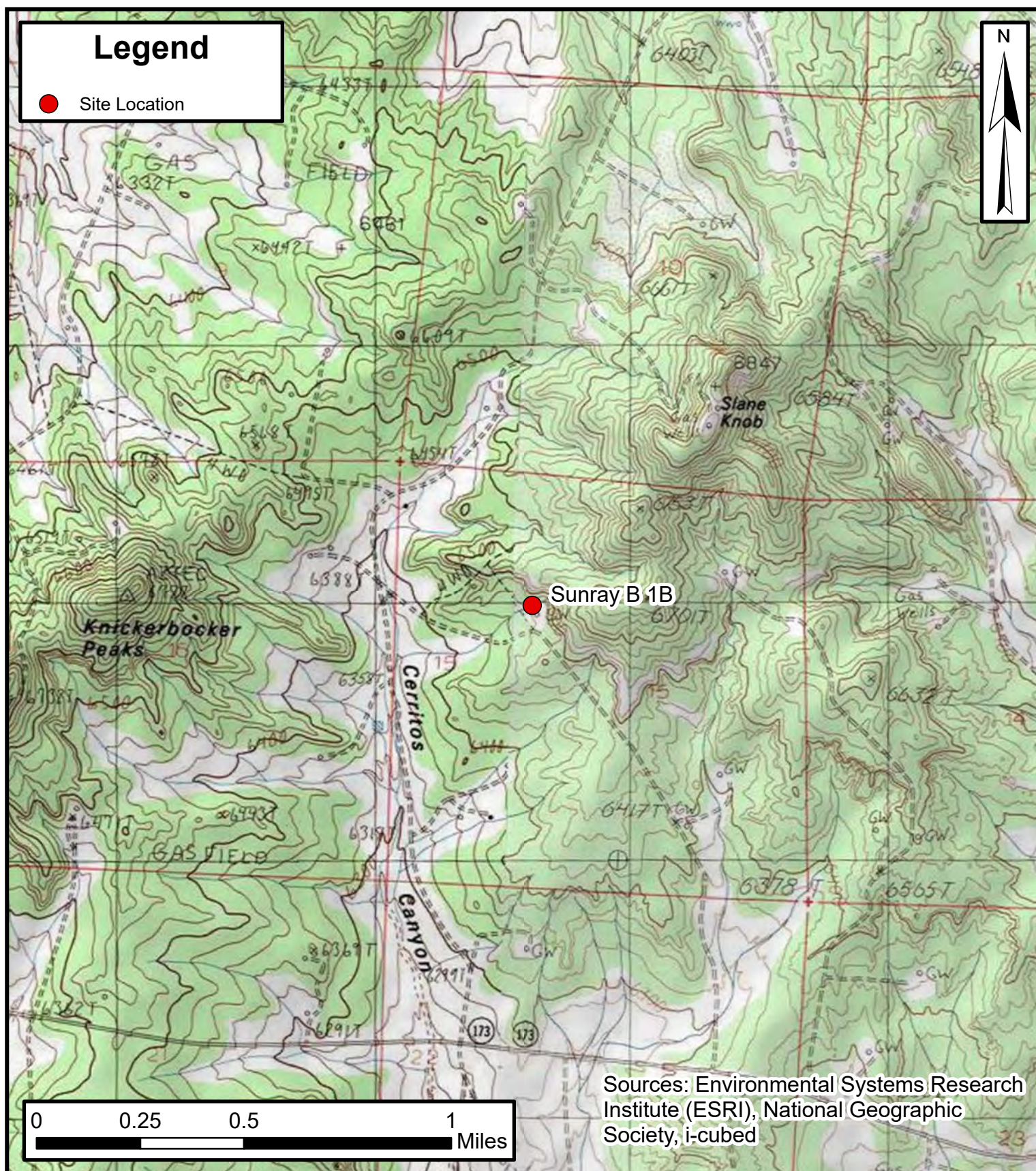
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Attachments:

Figure 1	Site Location Map
Figure 2	SVE System Radius of Influence and Radius of Effect
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Field Measurements
Table 3	Soil Vapor Extraction System Air Analytical Results
Table 4	Soil Vapor Extraction System Mass Removal and Emissions
Graph 1	Oxygen vs Time
Graph 2	Carbon Dioxide vs Time
Appendix A	Field Notes
Appendix B	Project Photographs
Appendix C	Laboratory Analytical Reports
Appendix D	Correspondence



Figures

Environmental, Engineering and
Hydrogeologic Consultants

Site Location Map

Sunray B 1B
Hilcorp Energy Company

Hilcorp Energy Company

36.8147621, -107.8746643
San Juan County, New Mexico

San Juan County, New Mexico

FIGURE

1



SVE System Radius of Influence and Radius of Effect

Sunray B 1B
Hilcorp Energy Company

36.8147621, -107.8746643
San Juan County, New Mexico

FIGURE
2



Tables & Graphs



TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

Sunray B 1B
Hilcorp Energy Company
San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Percent Runtime	Cumulative Percent Runtime
9/29/2023	126.8	Startup			
9/29/2025	17,346.1	625.6	26	100.3%	98.1%
10/8/2025	17,561.2	215.1	9	99.6%	98.2%
10/31/2025	18,114.5	553.3	23	100.2%	98.2%
11/15/2025	18,475.8	361.3	15	100.4%	98.3%
11/28/2025	18,787.7	311.9	13	100.0%	98.3%
12/15/2025	19,192.6	404.9	17	99.2%	98.3%
12/30/2025	19,552.4	359.8	15	99.9%	98.3%
4th Qtr 2025 Runtime:					99.6%



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico								
SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1)/(2)}	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)
Influent, All Wells	8/29/2023	788	2.70	144	92	74.8	--	--
	8/30/2023	1,826	--	--	--	68.0	20.9	0.62
	9/29/2023	538	3.00	151	99	68.0	20.9	0.26
	10/6/2023	431	3.00	151	101	60.5	20.9	0.00
	10/12/2023	356	5.30	201	127	80.0	20.9	0.00
	10/19/2023	399	5.70	209	131	81.0	20.9	0.10
	10/26/2023	165	6.50	223	146	68.0	20.9	0.10
	10/31/2023	278	5.60	207	134	72.1	--	--
	11/16/2023	378	6.90	230	153	61.2	--	--
	11/28/2023	147	7.20	235	156	61.2	--	--
	12/7/2023	205	7.00	231	157	54.4	19.6	0.02
	12/13/2023	165	6.90	230	153	61.2	19.3	0.02
	12/20/2023	182	7.10	233	155	61.2	--	--
	12/28/2023	39	4.80	192	135	40.8	--	--
	1/19/2024	59	3.79	170	118	46.9	20.9	0.06
	2/2/2024	143	3.65	167	116	47.6	20.9	0.02
	2/14/2024	329	3.40	161	111	51.0	--	--
	2/23/2024	204	3.50	164	128	51.0	--	--
	3/6/2024	101	3.30	159	125	47.6	--	--
	3/21/2024	86	3.54	164	129	42.5	--	--
	4/9/2024	91	3.43	162	127	40.8	--	--
	4/17/2024	99	3.25	158	124	16.3	--	--
	5/14/2024	53	4.32	182	143	61.2	--	--
	5/23/2024	57	4.35	182	143	61.2	--	--
	6/4/2024	134	4.12	177	139	61.2	--	--
	6/26/2024	35	4.04	176	138	61.2	--	--
	7/10/2024	96	6.78	228	179	64.6	--	--
	7/26/2024	35	3.99	175	137	61.2	--	--
	8/8/2024	23	3.77	170	133	61.2	--	--
	8/21/2024	32	3.75	169	133	61.2	--	--
	9/6/2024	22	3.61	166	130	61.2	--	--
	9/19/2024	30	3.73	169	133	61.2	--	--
	10/14/2024	130	3.98	174	137	69.4	--	--
	10/29/2024	219	0.08	25	19	68.0	--	--
	11/6/2024	241	0.11	29	23	68.0	--	--
	11/19/2024	58	0.08	25	19	68.0	--	--
	12/3/2024	93	0.07	23	18	68.0	--	--
	12/17/2024	85	0.08	25	19	68.0	--	--
	1/8/2025	87	0.08	25	19	69.4	--	--
	1/25/2025	83	0.08	25	19	69.4	--	--
	2/6/2025	98	0.07	23	18	68.0	--	--
	2/21/2025	76	0.08	25	19	68.0	--	--
	3/11/2025	97	0.05	20	15	68.0	--	--
	3/31/2025	75	0.12	30	24	68.0	--	--
	4/11/2025	82	0.12	30	24	68.0	--	--
	4/29/2025	94	0.13	32	25	68.0	--	--
	5/9/2025	42	--	--	--	68.0	--	--
	5/21/2025	88	0.10	28	22	68.0	--	--
	6/10/2025	77	0.08	25	19	68.0	--	--
	6/26/2025	84	0.11	29	23	68.0	--	--
	7/17/2025	81	0.57	66	52	105.4	--	--
	7/28/2025	70	0.10	28	22	78.9	--	--
	8/18/2025	74	0.21	40	31	68.0	--	--
	8/27/2025	79	0.23	42	33	77.5	--	--
	9/3/2025	72	0.22	41	32	68.0	--	--
	9/29/2025	54	0.21	40	31	68.0	--	--
	10/8/2025	49	0.22	41	32	68.0	--	--
	10/31/2025	42	0.24	43	34	68.0	--	--
	11/15/2025	45	0.23	42	33	68.0	--	--
	11/28/2025	38	0.22	41	32	68.0	--	--
	12/15/2025	53	0.24	43	34	68.0	--	--
	12/30/2025	45	0.23	42	33	68.0	--	--



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 Sunray B 1B
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1)/(2)}	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)
SVE01	8/29/2023	2,789	--	--	16	78.9	--	--
	8/30/2023	3,588	--	--	20	--	20.9	0.62
	9/29/2023	1,312	--	--	10	76.2	20.9	0.18
	10/6/2023	1,429	--	--	10	66.0	20.9	--
	10/12/2023	2,450	--	--	9	76.0	20.9	0.18
	10/19/2023	672	--	--	10	70.0	20.9	0.08
	10/26/2023	420	--	--	10	68.0	20.9	0.08
	10/31/2023	348	--	--	--	72.1	20.9	0.02
	11/16/2023	688	--	--	8	78.9	19.8	0.06
	11/28/2023	453	--	--	8	62.6	20.2	0.04
	12/7/2023	430	--	--	8	58.0	19.6	0.02
	12/13/2023	405	--	--	10	59.8	19.3	0.02
	12/20/2023	--	--	--	12	59.8	--	--
	12/28/2023	20	--	--	9	49.0	19.3	0.04
	1/19/2024	151	--	--	8	49.0	20.9	0.04
	2/2/2024	345	0.60	68	48	38.0	20.9	0.04
	2/14/2024	215	0.13	32	22	43.5	20.9	0.02
	2/23/2024	245	0.04	17	14	32.6	20.9	0.02
	3/6/2024	268	--	--	--	40.0	20.7	0.00
	3/21/2024	187	0.06	21	17	38.1	20.9	0.02
	4/9/2024	174	0.04	17	14	38.1	20.9	0.02
	4/17/2024	180	0.04	17	14	39.4	20.9	0.02
	5/14/2024	134	0.06	21	17	54.4	20.9	0.03
	5/23/2024	100	0.05	20	15	35.4	20.5	0.04
	6/4/2024	213	0.08	25	19	54.4	20.9	0.04
	6/26/2024	187	0.06	21	17	54.4	20.9	0.04
	7/10/2024	139	0.06	21	17	57.1	20.9	0.05
	7/26/2024	113	0.06	21	17	55.8	20.9	0.05
	8/8/2024	94	0.06	21	17	57.1	20.9	0.05
	8/21/2024	100	0.07	23	18	57.1	20.9	0.04
	9/6/2024	82	0.07	23	18	57.1	20.9	0.05
	9/19/2024	87	0.04	17	14	57.1	20.9	0.06
	10/14/2024	95	--	--	--	69.4	20.9	0.07
	10/29/2024	132	0.05	20	15	68.0	20.9	0.04
	11/6/2024	183	0.06	21	17	68.0	20.9	0.06
	11/19/2024	71	0.05	20	15	70.7	20.9	0.03
	12/3/2024	98	0.05	20	15	65.3	20.9	0.04
	12/17/2024	87	0.05	20	15	69.4	20.9	0.04
	1/8/2025	85	0.05	20	15	70.7	20.9	0.03
	1/25/2025	81	0.03	15	12	70.7	20.9	0.03
	2/6/2025	95	0.02	12	10	70.7	20.9	0.03
	2/21/2025	78	0.02	12	10	70.7	--	--
	3/11/2025	98	0.04	17	14	68.0	--	--
	3/31/2025	74	0.04	17	14	70.7	19.8	0.10
	4/11/2025	83	0.07	23	18	68.0	20.9	0.20
	4/29/2025	96	0.08	25	19	68.0	20.9	0.10
	5/9/2025	46	--	--	--	68.0	21.0	0.09
	5/21/2025	99	0.04	17	14	70.7	20.8	0.13
	6/10/2025	88	0.04	17	14	70.7	20.9	0.12
	6/26/2025	96	0.04	17	14	70.7	20.9	0.10
	7/17/2025	84	0.27	45	36	103.4	20.9	0.14
	7/28/2025	71	0.05	20	15	95.2	20.9	0.09
	8/18/2025	80	0.21	40	31	68.0	20.9	0.15
	8/27/2025	75	0.18	37	29	81.6	20.9	0.09
	9/3/2025	68	0.18	37	29	68.0	20.9	0.10
	9/29/2025	59	0.19	38	30	66.6	20.9	0.11
	7/17/2025	84	0.27	45	36	103.4	20.9	0.14
	7/28/2025	71	0.05	20	15	95.2	20.9	0.09
	8/18/2025	80	0.21	40	31	68.0	20.9	0.15
	8/27/2025	75	0.18	37	29	81.6	20.9	0.09
	9/3/2025	68	0.18	37	29	68.0	20.9	0.10



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico								
SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1)/(2)}	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)
SVE01	10/8/2025	50	0.16	35	27	68.0	20.9	0.08
	10/31/2025	42	0.14	33	26	68.0	20.4	0.06
	11/15/2025	51	0.12	30	24	68.0	20.2	0.11
	11/28/2025	40	0.11	29	23	68.0	20.9	0.04
	12/15/2025	54	0.11	29	23	68.0	20.9	0.07
	12/30/2025	47	0.11	29	23	68.0	20.9	0.05
SVE02	8/29/2023	416	--	--	16	81.6	--	--
	8/30/2023	1,849	--	--	23	--	20.9	0.62
	9/29/2023	403	--	--	13	73.4	20.9	0.12
	10/6/2023	382	--	--	22	66.0	20.9	--
	10/12/2023	540	--	--	16	72.0	20.9	0.10
	10/19/2023	288	--	--	14	70.0	20.9	0.08
	10/26/2023	95	--	--	10	72.0	20.9	0.04
	10/31/2023	215	--	--	18	69.4	20.9	0.10
	11/16/2023	515	--	--	15	62.6	19.8	0.02
	11/28/2023	93	--	--	19	59.8	20.2	0.02
	12/7/2023	55	--	--	18	56.0	19.6	0.02
	12/13/2023	107	--	--	25	57.1	19.3	0.00
	12/20/2023	--	--	--	24	54.4	--	--
	12/28/2023	44	--	--	18	43.5	19.3	0.02
	1/19/2024	38	--	--	16	43.5	20.9	0.04
	2/2/2024	13	0.14	33	24	34.0	20.9	0.02
	2/14/2024	75	0.08	25	18	24.5	20.9	0.03
	2/23/2024	99	0.09	26	21	29.9	20.9	0.03
	3/6/2024	105	--	--	--	10.0	20.7	0.04
	3/21/2024	25	0.12	30	24	27.2	20.9	0.03
	4/9/2024	77	0.02	12	10	28.6	20.9	0.03
	4/17/2024	71	0.02	12	10	15.9	20.9	0.03
	5/14/2024	40	0.02	12	10	18.5	20.9	0.04
	5/23/2024	64	0.02	12	10	5.4	20.8	0.04
	6/4/2024	59	0.09	26	21	6.8	20.9	0.05
	6/26/2024	19	0.01	9	7	6.8	20.9	0.03
	7/10/2024	29	0.09	26	21	10.9	20.9	0.08
	7/26/2024	35	0.09	26	21	43.5	20.9	0.07
	8/8/2024	25	0.08	25	19	43.5	20.9	0.06
	8/21/2024	36	0.05	20	15	43.5	20.9	0.06
	9/6/2024	28	0.06	21	17	43.5	20.9	0.05
	9/19/2024	35	0.06	21	17	43.5	20.9	0.05
	10/14/2024	Well Taken Offline						
SVE03	8/29/2023	174	--	--	25	73.4	--	--
	8/30/2023	426	--	--	>25	--	20.9	0.62
	9/29/2023	248	--	--	>25	65.3	20.9	0.20
	10/6/2023	162	--	--	40	52.0	20.9	--
	10/12/2023	450	--	--	50	52.0	20.9	0.14
	10/19/2023	131	--	--	<50	55.0	20.9	0.10
	10/26/2023	88	--	--	>50	56.0	20.9	0.08
	10/31/2023	89	--	--	>50	53.0	20.9	0.02
	11/16/2023	258	--	--	>50	50.3	19.8	0.04
	11/28/2023	148	--	--	>50	47.6	20.2	0.02
	12/7/2023	45	--	--	>50	44.0	19.6	0.02
	12/13/2023	175	--	--	>50	50.3	19.3	0.02
	12/20/2023	--	--	--	>50	46.2	--	--
	12/28/2023	34	--	--	>50	35.4	19.3	0.04
	1/19/2024	31	--	--	36	35.4	20.9	0.08
	2/2/2024	74	0.73	75	55	24.0	20.9	0.02
	2/14/2024	54	0.88	82	61	23.1	20.9	0.06
	2/23/2024	63	0.60	68	53	23.1	20.9	0.06
	3/6/2024	125	--	--	--	24.0	20.5	0.06
	3/21/2024	51	0.36	52	41	23.1	20.9	0.06
	4/8/2024	55	0.73	75	59	23.1	20.9	0.07



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS Sunray B 1B Hilcorp Energy Company San Juan County, New Mexico								
SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1),(2)}	Vacuum (IWC)	Oxygen (%)	Carbon Dioxide (%)
SVE03	4/17/2024	58	0.73	75	59	27.2	20.9	0.07
	5/14/2024	37	1.02	88	69	35.4	20.9	0.07
	5/23/2024	35	0.98	87	68	35.4	20.4	0.04
	6/4/2024	42	0.79	78	61	34.0	20.9	0.06
	6/26/2024	27	0.84	80	63	32.6	20.9	0.06
	7/10/2024	35	0.82	79	62	42.2	20.9	0.11
	7/26/2024	32	0.69	73	57	40.8	20.9	0.08
	8/8/2024	28	0.67	72	56	43.5	20.9	0.08
	8/21/2024	29	0.66	71	56	40.8	20.9	0.08
	9/6/2024	26	0.59	67	53	40.8	20.9	0.08
	9/19/2024	32	0.54	64	50	39.4	20.9	0.07
Well Taken Offline								

Notes:

(1): individual well flow rates in scfm estimated based on rotometer field measurements through 1/19/24; calculated from pitot tube differential pressure readings beginning 2/2/24

(2): total system flow rates in scfm calculated based on pitot tube differential pressure measurements

IWC: inches of water column

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured



TABLE 3
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
 Sunray B 1B
 Hilcorp Energy Company
 San Juan County, New Mexico

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
8/29/2023	788	18	190	6.8	58	5,900	18.38%	4.23%
8/30/2023	1,826	10	230	<10	77	6,000	21.39%	0.87%
9/29/2023	538	4.8	140	11	100	4,100	21.67%	0.36%
10/6/2023	529	<2.0	48	<5.0	41	1,400	21.74%	0.18%
10/12/2023	357	<2.0	47	<5.0	51	1,800	21.69%	0.22%
10/19/2023	399	<5.0	29	<5.0	29	1,200	21.81%	0.16%
10/26/2023	165	<5.0	26	<5.0	21	960	21.80%	0.15%
10/31/2023	278	0.53	30	3.3	42	900	21.60%	0.17%
11/16/2023	378	0.41	21	2.5	35	1,100	21.61%	0.10%
11/28/2023	147	<0.50	13	1.7	22	750	21.64%	0.10%
12/13/2023	165	<0.50	11	1.6	20	650	21.68%	0.10%
12/28/2023	39	<0.10	<0.10	<0.10	<0.15	7.5	21.73%	0.05%
1/19/2024	59	<0.50	4.7	0.58	6.0	300	21.73%	0.05%
3/6/2024	101	<5.0	<5.0	<5.0	<7.5	<250	22.19%	0.12%
5/14/2024	53	<0.10	3.1	0.44	6.4	210	21.43%	0.13%
7/26/2024	35	<0.20	2.4	0.28	4.1	180	21.79%	0.15%
9/6/2024	22	<0.50	<0.50	<0.50	<0.75	<25	21.73%	0.05%
11/19/2024	58	0.84	11	1.0	14	320	21.81%	0.14%
2/6/2025	98	<0.50	<0.50	<0.50	<0.75	<25	21.90%	0.10%
5/21/2025	88	3.0	17	0.86	14	270	21.72%	0.21%
8/18/2025	74	<0.50	18	<0.50	8.1	370	21.82%	0.22%
11/15/2025	45	<0.50	5.5	<0.50	6.8	260	21.90%	0.15%

Notes:

GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

<: gray indicates result less than the stated laboratory reporting limit (RL)



TABLE 4
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS
Sunray B 1B
Hilcorp Energy Company
San Juan County, New Mexico

Laboratory Analysis

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
8/29/2023	788	18	190	6.8	58	5,900
8/30/2023	1,826	10	230	10	77	6,000
9/29/2023	538	4.8	140	11	100	4,100
10/6/2023	529	2.0	48	5.0	41	1,400
10/12/2023	357	2.0	47	5.0	51	1,800
10/19/2023	399	5.0	29	5.0	29	1,200
10/26/2023	165	5.0	26	5.0	21	960
10/31/2023	278	0.53	30	3.3	42	900
11/16/2023	378	0.41	21	2.5	35	1,100
11/28/2023	147	0.50	13	1.7	22	750
12/13/2023	165	0.50	11	1.60	20	650
12/28/2023	39	0.10	0.10	0.10	0.15	7.5
1/19/2024	59	0.50	4.7	0.58	6.0	300
3/6/2024	101	5.0	5.0	5.0	7.5	250
5/14/2024	53	0.10	3.1	0.44	6.4	210
7/26/2024	35	0.20	2.4	0.28	4.1	180
9/6/2024	22	0.50	0.50	0.50	0.75	25
11/19/2024	58	0.84	11	1.0	14	320
2/6/2025	98	0.50	0.50	0.50	0.75	25
5/21/2025	88	3.0	17	0.86	14	270
8/18/2025	74	0.50	18	0.50	8.1	370
11/15/2025	45	0.50	6	0.50	6.8	260
Average	284	3	39	3	26	1,226

Vapor Extraction Summary

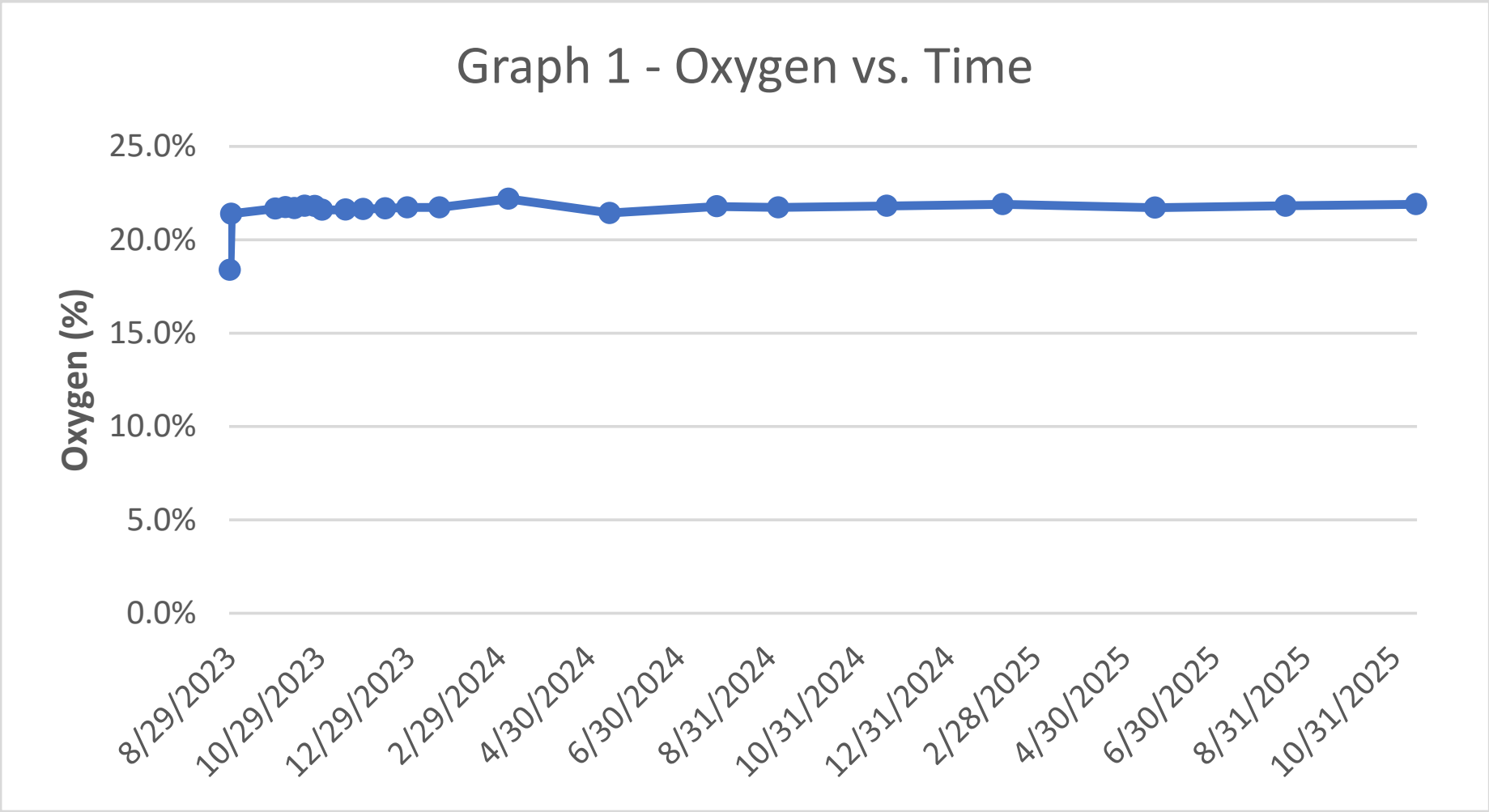
Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
9/29/2023	99.0							
10/6/2023	101	1,015,656	1,015,656	0.00127	0.035	0.0030	0.026	1.03
10/12/2023	127	--	--	--	--	--	--	--
10/19/2023	131	5,575,242	4,559,586	0.0015	0.017	0.0022	0.0152	0.56
10/26/2023	146	7,013,634	1,438,392	0.0026	0.0142	0.0026	0.0130	0.56
10/31/2023	134	7,760,550	746,916	0.00145	0.0147	0.0022	0.0165	0.49
11/16/2023	153	11,259,048	3,498,498	0.00025	0.0137	0.0016	0.0207	0.54
11/28/2023	156	13,876,104	2,617,056	0.00026	0.0098	0.0012	0.0165	0.53
12/13/2023	153	17,154,282	3,278,178	0.00029	0.0069	0.0010	0.0121	0.40
12/28/2023	135	19,794,882	2,640,600	0.00016	0.0030	0.0005	0.0054	0.18
1/19/2024	118	23,462,322	3,667,440	0.00014	0.0011	0.0002	0.0015	0.07
3/6/2024	125	31,920,822	8,458,500	0.00125	0.0022	0.0013	0.0031	0.12
5/14/2024	143	46,119,006	14,198,184	0.00128	0.0020	0.0014	0.0035	0.12
7/26/2024	137	60,469,482	14,350,476	0.00008	0.0014	0.0002	0.0027	0.10
9/6/2024	133	68,267,538	7,798,056	0.00018	0.0007	0.0002	0.0012	0.05
11/19/2024	19	70,128,360	1,860,822	0.00019	0.0016	0.0002	0.0021	0.05
2/6/2025	18	72,177,336	2,048,976	0.00005	0.0004	0.0001	0.0005	0.01
5/21/2025	22	75,459,120	3,281,784	0.00013	0.0007	0.0001	0.0006	0.01
8/18/2025	33	79,645,632	4,186,512	0.00018	0.0018	0.0001	0.0011	0.03
11/15/2025	32	83,756,544	4,110,912	0.00006	0.0014	0.0001	0.0009	0.04
Average				0.00063	0.007	0.0010	0.008	0.27

Mass Recovery

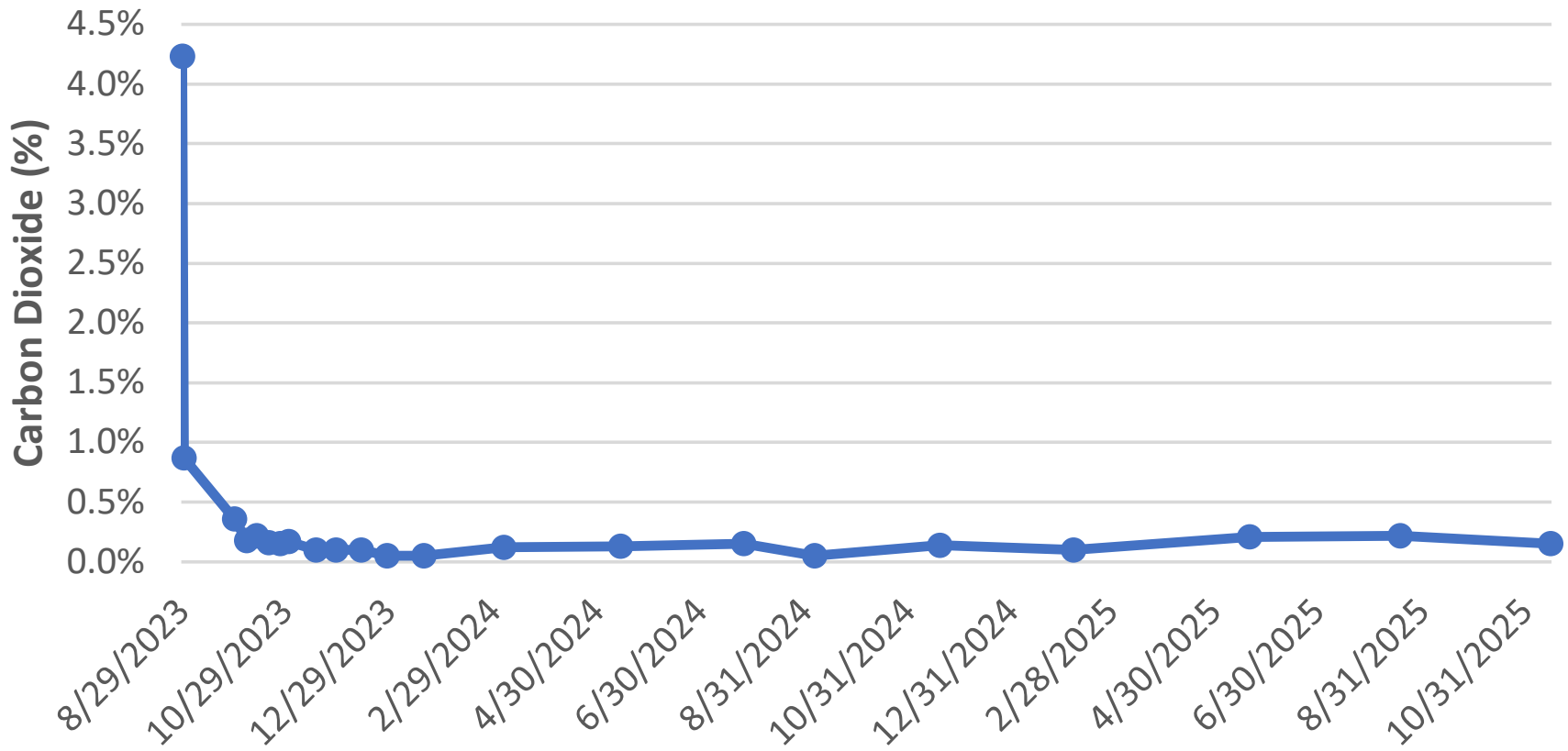
Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
9/29/2023	127							
10/6/2023	294	168	0.21	5.9	0.50	4.4	172	0.086
10/12/2023	--	--	--	--	--	--	--	--
10/19/2023	580	580	0.88	9.7	1.26	8.8	327	0.164
10/26/2023	744	164	0.43	2.3	0.43	2.1	92	0.046
10/31/2023	837	93	0.134	1.36	0.20	1.53	45	0.023
11/16/2023	1,218	381	0.096	5.2	0.59	7.9	205	0.102
11/28/2023	1,498	280	0.074	2.7	0.34	4.6	149	0.075
12/13/2023	1,855	357	0.103	2.5	0.34	4.3	144	0.072
12/28/2023	2,181	326	0.053	1.0	0.15	1.8	58	0.029
1/19/2024	2,699	518	0.074	0.6	0.08	0.8	38	0.019
3/6/2024	3,827	1,128	1.409	2.5	1.43	3.5	141	0.070
5/14/2024	5,482	1,655	2.115	3.4	2.26	5.8	191	0.095
7/26/2024	7,227	1,746	0.137	2.5	0.33	4.8	178	0.089
9/6/2024	8,205	977	0.173	0.7	0.19	1.2	51	0.025
11/19/2024	9,837	1,632	0.311	2.7	0.35	3.4	80	0.040
2/6/2025	11,734	1,897	0.088	0.8	0.10	1.0	23	0.011
5/21/2025	14,220	2,486	0.325	1.6	0.13	1.4	27	0.014
8/18/2025	16,335	2,114	0.381	3.8	0.15	2.4	70	0.035
11/15/2025	18,476	2,141	0.130	3.1	0.13	1.9	82	0.041
Total Mass Recovery to Date			7.12	52	9.0	62	2,073	1.04

Notes:

cf: cubic feet
scfm: standard cubic feet per minute
µg/L: micrograms per liter
lb/hr: pounds per hour
PID: photoionization detector
ppm: parts per million
TVPH: total volatile petroleum hydrocarbons
--: not measured
gray: laboratory reporting limit used for calculating emissions



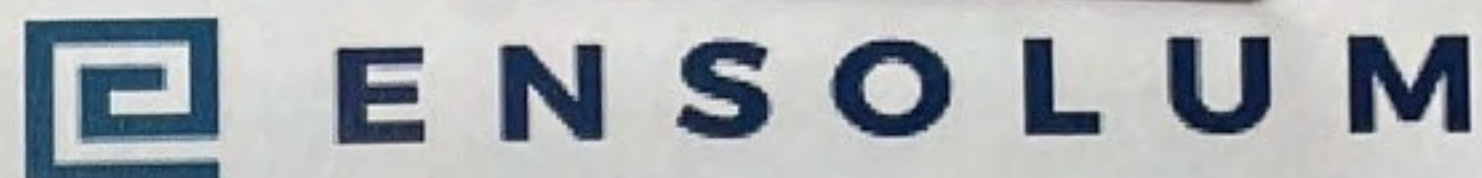
Graph 2 - Carbon Dioxide vs. Time





APPENDIX A

Field Notes

**SUNRAY B 1B SVE SYSTEM
O&M FORM**DATE: 10-8
TIME ONSITE: _____O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____**SVE SYSTEM - MONTHLY O&M**

SVE ALARMS: _____ KO TANK HIGH LEVEL

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	<u>17561.2</u>	<u>1200</u>
Inlet Vacuum (IHG)	<u>5.0</u>	
Differential Pressure (IWC)	<u>0.22</u>	
Inlet PID	<u>48.4</u>	
Exhaust PID	<u>33.1</u>	
Inlet Temperature		
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

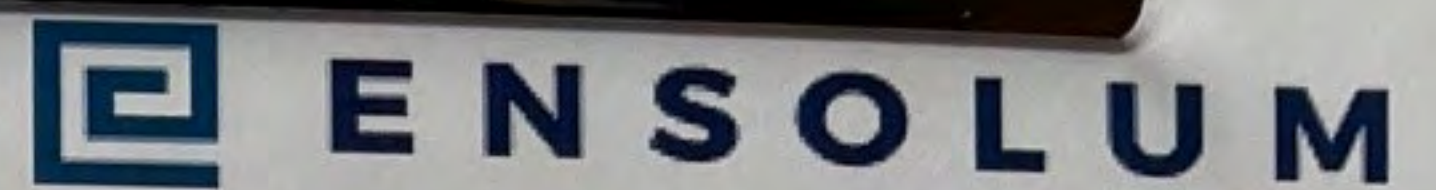
SVE SYSTEM SAMPLING**SAMPLE ID:** _____ **SAMPLE TIME:** _____**Analytes:** Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)**OPERATING WELLS** _____

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	<u>5.0</u>	<u>50.3</u>	<u>0.16</u>	<u>20.9</u>	<u>780</u>
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:



SUNRAY B 1B SVE SYSTEM
O&M FORM

DATE: 10-31
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: KO TANK HIGH LEVEL

	Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease
QUARTERLY MAINTENANCE:	Blower Oil Change

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	<u>18114.5</u>	<u>1354</u>
Inlet Vacuum (IHG)	<u>5.0</u>	
Differential Pressure (IWC)	<u>0.24</u>	
Inlet PID	<u>42.2</u>	
Exhaust PID	<u>32.7</u>	
Inlet Temperature		
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM SAMPLING

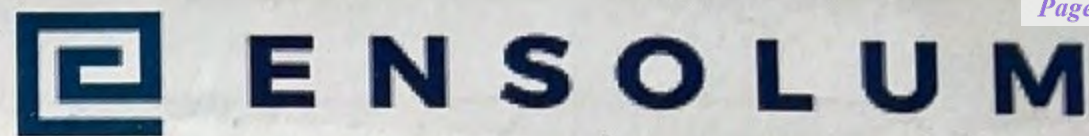
SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	<u>5.0</u>	<u>41.9</u>	<u>0.14</u>	<u>20.4</u>	<u>580</u>
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:



SUNRAY B 1B SVE SYSTEM
O&M FORM

DATE: 11-15
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	18475.8	1330
Inlet Vacuum (IHG)	5.0	
Differential Pressure (IWC)	0.23	
Inlet PID	94.5	
Exhaust PID	38.1	
exh Inlet Temperature	120	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM SAMPLING

SAMPLE ID:	SVE-1	SAMPLE TIME:	1345
Analytes:	Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)		
OPERATING WELLS			

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	5.0	50.7	0.12	20.2	1120
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:

SUNRAY B 1B SVE SYSTEM
O&M FORM

DATE: 11-28
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:

KO TANK HIGH LEVEL

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	18787.7	1249
Inlet Vacuum (IHG)	5.0	
Differential Pressure (IWC)	0.22	
Inlet PID	37.8	
Exhaust PID	30.1	
exh Inlet Temperature	115	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM SAMPLING

SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	5.0	39.7	0.11	20.9	990
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:

SUNRAY B 1B SVE SYSTEM
O&M FORMDATE: 12-15
TIME ONSITE: _____O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	19192.6	1154
Inlet Vacuum (IHG)	5.0	
Differential Pressure (IWC)	0.24	
Inlet PID	52.8	
Exhaust PID	47.2	
exh inlet Temperature	120	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	17	

SVE SYSTEM SAMPLING

SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

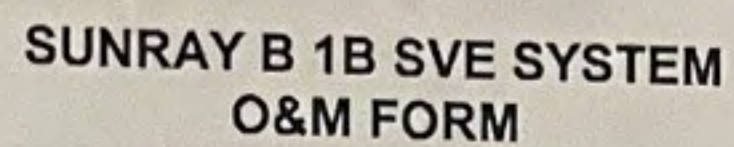
Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	5.0	53.8	0.11	20.9	790
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:

Turned on heat trace



O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	19552.9	1135
Inlet Vacuum (IHG)	5.0	
Differential Pressure (IWC)	0.23	
Inlet PID	45.1	
Exhaust PID	40.9	
exh Inlet Temperature	105	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM SAMPLING

SAMPLE ID:	SAMPLE TIME:
ANALYTES:	Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	DIFF PRESSURE (IN W.C.)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	5.0	47.2	0.11	20.9	520
SVE02					
SVE03					

COMMENTS/OTHER MAINTENANCE:



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
Sunray B 1B
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on September 29, 2025 at 1:17 PM Hours = 17,346.1	
Photograph 2 Runtime meter taken on December 30, 2025 at 11:35 AM Hours = 19,552.9	



APPENDIX C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 12/4/2025 2:34:02 PM

JOB DESCRIPTION

Sunray B 1B

JOB NUMBER

885-37914-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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12/4/2025 2:34:02 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Laboratory Job ID: 885-37914-1

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- 12

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: Sunray B 1B

Job ID: 885-37914-1

Job ID: 885-37914-1

Eurofins Albuquerque

Job Narrative 885-37914-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 11/18/2025 6:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: SVE-1 (885-37914-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Client Sample ID: SVE-1

Lab Sample ID: 885-37914-1

Date Collected: 11/15/25 13:45

Matrix: Air

Date Received: 11/18/25 06:10

Sample Container: Tedlar Bag 1L

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L			11/25/25 19:40	5
1,1,1-Trichloroethane	ND		0.50	ug/L			11/25/25 19:40	5
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			11/25/25 19:40	5
1,1,2-Trichloroethane	ND		0.50	ug/L			11/25/25 19:40	5
1,1-Dichloroethane	ND		0.50	ug/L			11/25/25 19:40	5
1,1-Dichloroethene	ND		0.50	ug/L			11/25/25 19:40	5
1,1-Dichloropropene	ND		0.50	ug/L			11/25/25 19:40	5
1,2,3-Trichlorobenzene	ND		0.50	ug/L			11/25/25 19:40	5
1,2,3-Trichloropropane	ND		1.0	ug/L			11/25/25 19:40	5
1,2,4-Trichlorobenzene	ND		0.50	ug/L			11/25/25 19:40	5
1,2,4-Trimethylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
1,2-Dibromo-3-Chloropropane	ND		1.0	ug/L			11/25/25 19:40	5
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			11/25/25 19:40	5
1,2-Dichlorobenzene	ND		0.50	ug/L			11/25/25 19:40	5
1,2-Dichloroethane (EDC)	ND		0.50	ug/L			11/25/25 19:40	5
1,2-Dichloropropane	ND		0.50	ug/L			11/25/25 19:40	5
1,3,5-Trimethylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
1,3-Dichlorobenzene	ND		0.50	ug/L			11/25/25 19:40	5
1,3-Dichloropropane	ND		0.50	ug/L			11/25/25 19:40	5
1,4-Dichlorobenzene	ND		0.50	ug/L			11/25/25 19:40	5
1-Methylnaphthalene	ND		2.0	ug/L			11/25/25 19:40	5
2,2-Dichloropropane	ND		1.0	ug/L			11/25/25 19:40	5
2-Butanone	ND		5.0	ug/L			11/25/25 19:40	5
2-Chlorotoluene	ND		0.50	ug/L			11/25/25 19:40	5
2-Hexanone	ND		5.0	ug/L			11/25/25 19:40	5
2-Methylnaphthalene	ND		2.0	ug/L			11/25/25 19:40	5
4-Chlorotoluene	ND		0.50	ug/L			11/25/25 19:40	5
4-Isopropyltoluene	ND		0.50	ug/L			11/25/25 19:40	5
4-Methyl-2-pentanone	ND		5.0	ug/L			11/25/25 19:40	5
Acetone	ND		5.0	ug/L			11/25/25 19:40	5
Benzene	ND		0.50	ug/L			11/25/25 19:40	5
Bromobenzene	ND		0.50	ug/L			11/25/25 19:40	5
Bromodichloromethane	ND		0.50	ug/L			11/25/25 19:40	5
Dibromochloromethane	ND		0.50	ug/L			11/25/25 19:40	5
Bromoform	ND		0.50	ug/L			11/25/25 19:40	5
Bromomethane	ND		1.5	ug/L			11/25/25 19:40	5
Carbon disulfide	ND		5.0	ug/L			11/25/25 19:40	5
Carbon tetrachloride	ND		0.50	ug/L			11/25/25 19:40	5
Chlorobenzene	ND		0.50	ug/L			11/25/25 19:40	5
Chloroethane	ND		1.0	ug/L			11/25/25 19:40	5
Chloroform	ND		0.50	ug/L			11/25/25 19:40	5
Chloromethane	ND		1.5	ug/L			11/25/25 19:40	5
cis-1,2-Dichloroethene	ND		0.50	ug/L			11/25/25 19:40	5
cis-1,3-Dichloropropene	ND		0.50	ug/L			11/25/25 19:40	5
Dibromomethane	ND		0.50	ug/L			11/25/25 19:40	5
Dichlorodifluoromethane	ND		0.50	ug/L			11/25/25 19:40	5
Ethylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
Hexachlorobutadiene	ND		0.50	ug/L			11/25/25 19:40	5

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Client Sample ID: SVE-1

Lab Sample ID: 885-37914-1

Date Collected: 11/15/25 13:45

Matrix: Air

Date Received: 11/18/25 06:10

Sample Container: Tedlar Bag 1L

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
Methyl-tert-butyl Ether (MTBE)	ND		0.50	ug/L			11/25/25 19:40	5
Methylene Chloride	ND		1.3	ug/L			11/25/25 19:40	5
n-Butylbenzene	ND		1.5	ug/L			11/25/25 19:40	5
N-Propylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
Naphthalene	ND		1.0	ug/L			11/25/25 19:40	5
sec-Butylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
Styrene	ND		0.50	ug/L			11/25/25 19:40	5
tert-Butylbenzene	ND		0.50	ug/L			11/25/25 19:40	5
Tetrachloroethene (PCE)	ND		0.50	ug/L			11/25/25 19:40	5
Toluene	5.5		0.50	ug/L			11/25/25 19:40	5
trans-1,2-Dichloroethene	ND		0.50	ug/L			11/25/25 19:40	5
trans-1,3-Dichloropropene	ND		0.50	ug/L			11/25/25 19:40	5
Trichloroethene (TCE)	ND		0.50	ug/L			11/25/25 19:40	5
Trichlorofluoromethane	ND		0.50	ug/L			11/25/25 19:40	5
Vinyl chloride	ND		0.50	ug/L			11/25/25 19:40	5
Xylenes, Total	6.8		0.75	ug/L			11/25/25 19:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		11/25/25 19:40	5
Toluene-d8 (Surr)	106		70 - 130		11/25/25 19:40	5
4-Bromofluorobenzene (Surr)	104		70 - 130		11/25/25 19:40	5
Dibromofluoromethane (Surr)	96		70 - 130		11/25/25 19:40	5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	260		25	ug/L			11/21/25 13:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	15 - 150		11/21/25 13:48	5

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-39035/4

Matrix: Air

Analysis Batch: 39035

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			11/25/25 16:51	1
1,1,1-Trichloroethane	ND		0.10	ug/L			11/25/25 16:51	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			11/25/25 16:51	1
1,1,2-Trichloroethane	ND		0.10	ug/L			11/25/25 16:51	1
1,1-Dichloroethane	ND		0.10	ug/L			11/25/25 16:51	1
1,1-Dichloroethene	ND		0.10	ug/L			11/25/25 16:51	1
1,1-Dichloropropene	ND		0.10	ug/L			11/25/25 16:51	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			11/25/25 16:51	1
1,2,3-Trichloropropane	ND		0.20	ug/L			11/25/25 16:51	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			11/25/25 16:51	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			11/25/25 16:51	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			11/25/25 16:51	1
1,2-Dichlorobenzene	ND		0.10	ug/L			11/25/25 16:51	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			11/25/25 16:51	1
1,2-Dichloropropane	ND		0.10	ug/L			11/25/25 16:51	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
1,3-Dichlorobenzene	ND		0.10	ug/L			11/25/25 16:51	1
1,3-Dichloropropane	ND		0.10	ug/L			11/25/25 16:51	1
1,4-Dichlorobenzene	ND		0.10	ug/L			11/25/25 16:51	1
1-Methylnaphthalene	ND		0.40	ug/L			11/25/25 16:51	1
2,2-Dichloropropane	ND		0.20	ug/L			11/25/25 16:51	1
2-Butanone	ND		1.0	ug/L			11/25/25 16:51	1
2-Chlorotoluene	ND		0.10	ug/L			11/25/25 16:51	1
2-Hexanone	ND		1.0	ug/L			11/25/25 16:51	1
2-Methylnaphthalene	ND		0.40	ug/L			11/25/25 16:51	1
4-Chlorotoluene	ND		0.10	ug/L			11/25/25 16:51	1
4-Isopropyltoluene	ND		0.10	ug/L			11/25/25 16:51	1
4-Methyl-2-pentanone	ND		1.0	ug/L			11/25/25 16:51	1
Acetone	ND		1.0	ug/L			11/25/25 16:51	1
Benzene	ND		0.10	ug/L			11/25/25 16:51	1
Bromobenzene	ND		0.10	ug/L			11/25/25 16:51	1
Bromodichloromethane	ND		0.10	ug/L			11/25/25 16:51	1
Dibromochloromethane	ND		0.10	ug/L			11/25/25 16:51	1
Bromoform	ND		0.10	ug/L			11/25/25 16:51	1
Bromomethane	ND		0.30	ug/L			11/25/25 16:51	1
Carbon disulfide	ND		1.0	ug/L			11/25/25 16:51	1
Carbon tetrachloride	ND		0.10	ug/L			11/25/25 16:51	1
Chlorobenzene	ND		0.10	ug/L			11/25/25 16:51	1
Chloroethane	ND		0.20	ug/L			11/25/25 16:51	1
Chloroform	ND		0.10	ug/L			11/25/25 16:51	1
Chloromethane	ND		0.30	ug/L			11/25/25 16:51	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			11/25/25 16:51	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			11/25/25 16:51	1
Dibromomethane	ND		0.10	ug/L			11/25/25 16:51	1
Dichlorodifluoromethane	ND		0.10	ug/L			11/25/25 16:51	1
Ethylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
Hexachlorobutadiene	ND		0.10	ug/L			11/25/25 16:51	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-39035/4

Matrix: Air

Analysis Batch: 39035

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			11/25/25 16:51	1
Methylene Chloride	ND		0.25	ug/L			11/25/25 16:51	1
n-Butylbenzene	ND		0.30	ug/L			11/25/25 16:51	1
N-Propylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
Naphthalene	ND		0.20	ug/L			11/25/25 16:51	1
sec-Butylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
Styrene	ND		0.10	ug/L			11/25/25 16:51	1
tert-Butylbenzene	ND		0.10	ug/L			11/25/25 16:51	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			11/25/25 16:51	1
Toluene	ND		0.10	ug/L			11/25/25 16:51	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			11/25/25 16:51	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			11/25/25 16:51	1
Trichloroethene (TCE)	ND		0.10	ug/L			11/25/25 16:51	1
Trichlorofluoromethane	ND		0.10	ug/L			11/25/25 16:51	1
Vinyl chloride	ND		0.10	ug/L			11/25/25 16:51	1
Xylenes, Total	ND		0.15	ug/L			11/25/25 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		11/25/25 16:51	1
Toluene-d8 (Surr)	97		70 - 130		11/25/25 16:51	1
4-Bromofluorobenzene (Surr)	103		70 - 130		11/25/25 16:51	1
Dibromofluoromethane (Surr)	96		70 - 130		11/25/25 16:51	1

Lab Sample ID: LCS 885-39035/3

Matrix: Air

Analysis Batch: 39035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	17.5		ug/L		88	70 - 130
Benzene	20.0	18.4		ug/L		92	70 - 130
Chlorobenzene	20.0	20.8		ug/L		104	70 - 130
Toluene	20.0	20.1		ug/L		100	70 - 130
Trichloroethene (TCE)	20.0	15.7		ug/L		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-38864/6					Client Sample ID: Method Blank				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 38864									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			11/21/25 11:59	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	114		15 - 150				11/21/25 11:59	1	

Lab Sample ID: LCS 885-38864/5					Client Sample ID: Lab Control Sample				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 38864									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	50.0	47.0		ug/L		94	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	211		15 - 150						

QC Association Summary

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

GC/MS VOA

Analysis Batch: 39035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37914-1	SVE-1	Total/NA	Air	8260B	
MB 885-39035/4	Method Blank	Total/NA	Air	8260B	
LCS 885-39035/3	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 38864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37914-1	SVE-1	Total/NA	Air	8015D	
MB 885-38864/6	Method Blank	Total/NA	Air	8015D	
LCS 885-38864/5	Lab Control Sample	Total/NA	Air	8015D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Client Sample ID: SVE-1
Date Collected: 11/15/25 13:45
Date Received: 11/18/25 06:10

Lab Sample ID: 885-37914-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	39035	CM	EET ALB	11/25/25 19:40
Total/NA	Analysis	8015D		5	38864	AT	EET ALB	11/21/25 13:48

Laboratory References:
= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total
Oregon	NELAP	NM100001	02-25-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Sunray B 1B

Job ID: 885-37914-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Eurofins Albuquerque



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ANALYTICAL SUMMARY REPORT

November 25, 2025

Eurofins TestAmerica - Albuquerque

4901 Hawkins St NE Ste D

Albuquerque, NM 87109-4372

Work Order: B25111679

Quote ID: B15626

Project Name: 88501698, Sunray B 1B

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 11/20/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25111679-001	SVE-1 (885-37914-1)	11/15/25 13:45	11/20/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond./1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: 88501698, Sunray B 1B
Lab ID: B25111679-001
Client Sample ID: SVE-1 (885-37914-1)

Report Date: 11/25/25
Collection Date: 11/15/25 13:45
Date Received: 11/20/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.90	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Nitrogen	77.95	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Carbon Dioxide	0.15	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-13	11/21/25 10:55 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	11/21/25 10:55 / jrj

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	ND		1		GPA 2261-13	11/21/25 10:55 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND		1		GPA 2261-13	11/21/25 10:55 / jrj
Pseudo-critical Pressure, psia	546		1		GPA 2261-13	11/21/25 10:55 / jrj
Pseudo-critical Temperature, deg R	239		1		GPA 2261-13	11/21/25 10:55 / jrj
Specific Gravity @ 60/60F	0.999		0.001		D3588-17	11/21/25 10:55 / jrj
Air, %	100.07		0.01		GPA 2261-13	11/21/25 10:55 / jrj

- The analysis was not corrected for air.

COMMENTS

-						11/21/25 10:55 / jrj
-	- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior. - GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions. - To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825. - Standard conditions: 60 F & 14.73 psi on a dry basis.					

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25111679

Report Date: 11/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13									Batch: R454215	
Lab ID: B25111724-002ADUP	12 Sample Duplicate					Run: GC7890_251121A			11/21/25 15:06	
Oxygen		22.0	Mol %	0.01				0.0	20	
Nitrogen		77.9	Mol %	0.01				0	20	
Carbon Dioxide		0.12	Mol %	0.01				0.0	20	
Hydrogen Sulfide		<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plus		0.06	Mol %	0.01				18	20	
Lab ID: LCS112125	11 Laboratory Control Sample					Run: GC7890_251121A			11/21/25 16:46	
Oxygen		0.64	Mol %	0.01	130	70	130			
Nitrogen		6.30	Mol %	0.01	107	70	130			
Carbon Dioxide		0.96	Mol %	0.01	96	70	130			
Methane		76.2	Mol %	0.01	100	70	130			
Ethane		6.01	Mol %	0.01	99	70	130			
Propane		5.03	Mol %	0.01	101	70	130			
Isobutane		1.71	Mol %	0.01	86	70	130			
n-Butane		1.98	Mol %	0.01	99	70	130			
Isopentane		0.49	Mol %	0.01	98	70	130			
n-Pentane		0.49	Mol %	0.01	98	70	130			
Hexanes plus		0.19	Mol %	0.01	92	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque

B25111679

Login completed by: Leslie S. Cadreau

Date Received: 11/20/2025

Reviewed by: darcy

Received by: DNL

Reviewed Date: 11/20/2025

Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	9.0°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None



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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

 eurofins

Environment Testing

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Energy Laboratories, Inc. Address: 1120 South 27th Street, City: Billings State, Zip: MT, 59101 Phone: 406-252-6325(Tel) Email: N/A Project Name: Sunray B 1B Site: N/A			Lab PM: Garcia, Michelle E-Mail: michelle.garcia@et.eurofinsus.com Phone: N/A State of Origin: New Mexico Carrier Tracking No(s): N/A COC No: 885-7496.1 Page: Page 1 of 1 Job #: 885-37914-1 Preservation Codes:		
Due Date Requested: 11/25/2025 TAT Requested (days): N/A			Analysis Requested		
PO #: N/A WO #: N/A Project #: 88501698 SSOW#: N/A			SUB - Subcontract - Fixed Gases Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Total Number of Containers		
Sample Date: 11/15/25 Sample Time: 13:45 Mountain Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=titrim, A=AI) Preservation Code: Air			SUB - Subcontract - Fixed Gases Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Total Number of Containers		
SVE-1 (885-37914-1)			SUB - Subcontract - Fixed Gases Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Total Number of Containers		
SVE-1 (885-37914-1)			SUB - Subcontract - Fixed Gases Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Total Number of Containers		
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ICOC No:
885-7496

Containers

<u>Count</u>	<u>Container Type</u>	<u>Preservative</u>
1	Tedlar Bag 1L	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB - Subcontract - Fixed Gases	Fixed Gases

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-37914-1

Login Number: 37914

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX D

Correspondence

From: [Velez, Nelson, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Mitch Killough](#); [Hannah Mishriki](#); [Hall, Brittany, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: Re: [EXTERNAL] nAPP2212649502 - Sunray B 1B Confirmation Sampling Plan
Date: Thursday, December 11, 2025 2:49:27 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-ansrtrlb.png](#)

[**EXTERNAL EMAIL**]

Good day Stuart,

Thank you for the information and request. The sampling plan presented toward achieving final closure of the incident is approved. Please provide the required 2 business day notification prior to conducting the event per 19.15.29.12D (1a) NMAC.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities to be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, request for time extensions, an alternative sampling plan, and/or variances.

Regards,

Nelson Velez • Senior Environmental Scientist
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Stuart Hyde <shyde@ensolum.com>
Sent: Thursday, December 11, 2025 2:18 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Mitch Killough <mkillough@hilcorp.com>; Hannah Mishriki <hmishriki@ensolum.com>
Subject: [EXTERNAL] nAPP2212649502 - Sunray B 1B Confirmation Sampling Plan

CAUTION: This email originated outside of our organization. Exercise caution prior to

clicking on links or opening attachments.

Nelson,

Based on recent SVE system performance and air analytical results, we are looking to conduct confirmation drilling and sampling at the Sunray B 1B site in January 2026. Below is a sampling plan for your review and approval prior to conducting the work. Please let us know if you have any questions on this. Thanks.

Proposed Sampling Plan:

Based on soil sampling results collected during Site delineation activities (summarized in the Site Characterization Report and Remediation Work Plan, dated July 25, 2022), three soil borings will be advanced at the Site in the vicinity of borings BH02, BH04, and BH05 (shown on the attached figure) in order to collect confirmation soil samples and confirm that the SVE system was successful in remediating petroleum hydrocarbon impacts. These three soil borings will be advanced to depths of 20 feet bgs, with soil samples collected at 5-foot intervals (5', 10', 15', and 20') for analysis of TPH and BTEX. If all concentrations are below the NMOCD Table I Closure Criteria, Hilcorp will request from the NMOCD that no further action is required for the Site and closure of Incident Number nAPP2212649502. Thank you and please reach out with any questions.



Stuart Hyde, PG

(Licensed in TX, WA, & WY)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 542771

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 542771
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvez	1. Continue O&M & sampling as stated in report. 2. Submit next report by July 15, 2026 (bi-annual after 2 yrs.).	1/27/2026